



Science Toolkit: Grade 5 Objective 1.A.1.f

Student Handout: Science: Grade 5 Objective 1.A.1.f

Standard 1.0 Skills and Processes

Topic A. Constructing Knowledge

Indicator 1. Gather and question data from many different forms of scientific investigations which include reviewing appropriate print resources, observing what things are like or what is happening somewhere, collecting specimens for analysis, and doing experiments.

Objective f. Identify possible reasons for differences in results from investigations including unexpected differences in the methods used or in the circumstances in which the investigation is carried out, and sometimes just because of uncertainties in observations.

Selected Response (SR) Item

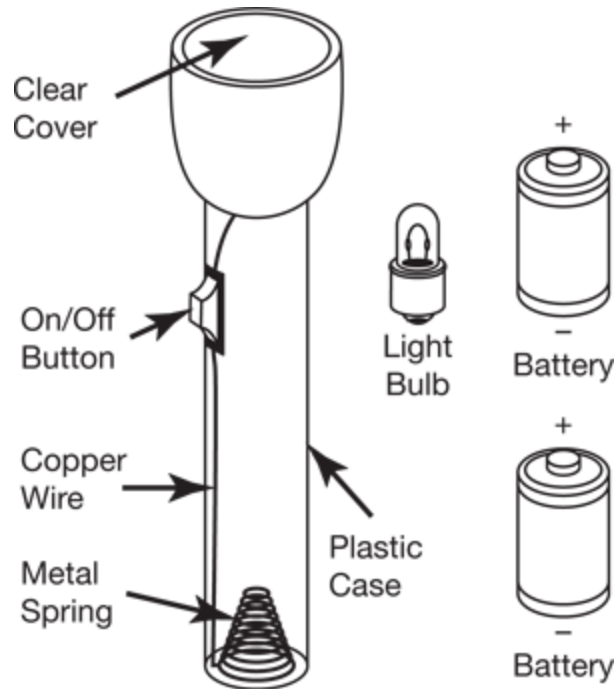
Question

Use the information below to answer the following:

A student pushed the on/off button of a flashlight to the "on" position and noticed that the light bulb glowed. After 15 minutes, the student noticed that the clear cover of the flashlight was warm.

The student pushed the on/off button of the flashlight to the "off" position and the light bulb no longer glowed. After 15 minutes, the clear cover was cool.

The student took the flashlight apart to determine its parts, as shown below.



The student put the pieces of the flashlight together and moved the on/off switch to the "on" position. The flashlight bulb glowed dimly.

What is the most likely reason that the flashlight bulb glowed dimly?

- A. The batteries were placed in the wrong direction.
- B. The copper wire blocked the electrical current.
- C. The stored energy in the batteries decreased.
- D. The electrical circuit was open.

Correct Answer

- C. The stored energy in the batteries decreased.

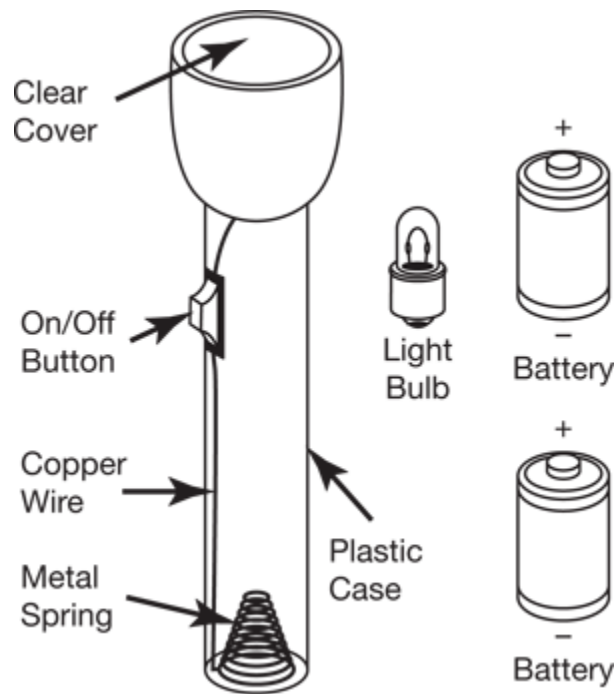
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